

PANELS PNL_S507 pH / ORP

These panels are supplied ready for use, assembled and wired, complete with:

- Electronic control unit, S507
- pH or ORP measurement electrode with glass body, for industrial applications
- Down-flow probe-holder (even with filtering cartridge)

Versions are also available with electrode-holder for use in domestic hot water, immersion electrode-holder or with dosing pumps for pH adjustment; moreover, solutions with sensors suitable for special applications, such as presence of fluorides, low conductivity samples, etc.

See assembly examples at the end of this data sheet.

TECHNICAL DATA

S507 Control Unit

Power Supply	230 V~ ±10%, 50/60Hz, max. 7 VA (other options on request)
Protections	PTC fuse, adequate to the power supply voltage
Display	dual row, alphanumeric LCD, with backlight
Analogic Inputs	precision better than 0.3% FS / repeatability better than 0.2% FS
pH/ORP Input	on removable terminal block, 4-pole (coaxial cable + reference); input impedance > 10 ¹² Ω
Temperature Input	on removable terminal block, 2-pole; directly from Pt100 sensor; measurement range -50.0 ... +200.0 °C
Digital Input	OFF input for disabling outputs; accept voltage-free contact; 5V power output, max 5mA
Relay Outputs	2 independent outputs, available on removable terminal block, 5-pole; contact max load 250 V~ , 3 A resistive
Current Output	0 / 4-20 mA (configurable); max load 600Ω ; error max 0.5% FS; with galvanic separation
Serial Port	standard RS232, on removable terminal block, 4-pole
Environment	Storage temperature -20 ... +60 °C Working temperature -10 ... +50 °C RH max 90% no condensing
Casing	ABS, watertight, wall-mounting with 4 screws
Protection Rate	IP66

STANDARD SENSORS

pH Electrode (model EURO2010-PH or EURO2050-PH)

Range	0 ... 14 pH
Zero Point	0 ± 20 mV
Sensibility	57 ... 59 mV/pH @ 25°C
Resistance	≤ 300 MΩ @ 25 °C
Electrode Body	glass stem, diameter 12 mm
Electrolyte	gel, with AgCl
Reference System	Ag/AgCl wire, integrated
Environment	working pressure max 6 bar sample conductivity min 50 µS/cm
Immersion Depth	min 20 mm
Response Time	< 30 sec @ pH 4...7
Connection	single-thread (S7) screw head

Model	EURO2010-PH	EURO2050-PH
Diaphragm	Single ceramic junction	Triple ceramic junction
Sensitive Membrane	S-glass	HA-glass
Working Temperature	0 ... 80 °C	0 ... 120 °C

ORP Electrode (model EURO2110-RX/Pt or EURO2150-RX/Pt)

Range	±2000 mV
Resistance	≤ 300 MΩ @ 25 °C
Electrode Body	glass stem, diameter 12 mm
Sensor	platinum wire
Electrolyte	gel, with AgCl
Reference System	Ag/AgCl wire, integrated
Environment	working pressure max 6 bar sample conductivity min 50 µS/cm
Immersion Depth	min 20 mm
Connection	single-thread (S7) screw head

Model	EURO2110-RX/Pt	EURO2150-RX/Pt
Diaphragm	Single ceramic junction	Triple ceramic junction
Working Temperature	0 ... 80 °C	0 ... 120 °C

EXAMPLES OF AVAILABLE ASSEMBLIES

